

Claims

- [c1] 1.A posterior part cleansing apparatus consisting of the following components:
- a.A piping connection from a cold water source to an external housing,
 - b.Said external housing having a volume ranging from 50 to 500 cubic inches,
 - c.Said housing containing the following components:
 - i.A cleaning fluid-level-controlling-valve to maintain the water level within said housing,
 - ii.A cleaning fluid pump operating at a rate ranging from 10 to 50 milliliters per second,
 - iii.A means to interrupt the cleaning fluid flow after de-activation of said fluid pump,
 - iv.A heater that increases the fluid to a temperature ranging from 15 degrees Celsius to 50 degree Celsius,
 - v.An electric power source that provides power to both said heater and pump,
 - d.A means to control duration of pump activation;
 - e.A cleaning nozzle mounted within the confines of any conventional toilet bowl;
 - f.A means to pipe the cleaning fluid to a cleaning nozzle;
 - g.Said cleaning nozzle creates a diffused stream of

cleaning fluid to a specific projected cleaning space located within the confines of the toilet bowl where;

i.Said projected cleaning space is parallel to the area projected by the upper rim of the toilet bowl,

ii.Said projected cleaning space is centered in the rear half of the toilet bowl along the longitudinal center line and segmented by the latitudinal center line of the toilet bowl,

iii.Said projected cleaning space upper area is planar in any geometric shape fitting within the confines of an oval area, centered in the rear half along the longitudinal axis of any conventional toilet bowl, where said oval area has a maximum width of 150 millimeters and a maximum length of 200 millimeters, and said oval area is bound in the rear end of said toilet bowl by the inner rim of said toilet bowl.

iv.Said projected cleaning space as a height protruding into the toilet bowl of up to 100 milimeters.

[c2] 2. A posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning nozzle creates a plurality of streams of cleaning fluid toward the projected cleaning space.

[c3] 3. A posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where a pressure sensitive switch is located under the lid of any conventional toilet

bowl.

- [c4] 4. A posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where a pressure sensitive switch is located under the lid of any conventional toilet bowl.
- [c5] 5. A posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces.
- [c6] 6. A posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces.
- [c7] 7. A posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where said cleaning nozzle is mounted along the longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 80 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 30 to 150 millimeters

and within 0 to 50 millimeters of the inner wall of said toilet bowl.

[c8] 8. A posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where said cleaning nozzle is mounted along the longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 80 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 30 to 150 millimeters and within 0 to 175 millimeters of the inner wall of said toilet bowl.

[c9] 9. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade.

[c10] 10. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second at a temperature ranging from 25 to 50 degree centigrade.

[c11] 11. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.

[c12] 12. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.

[c13] 13. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.

[c14] 14. A process employing a posterior part cleansing ap-

paratus specified in Claim 2 [Claim Reference], where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.

[c15] 15. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning fluid is water.

[c16] 16. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning fluid is water.

[c17] 17. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning fluid is a mixture of soap and water.

[c18] 18. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning fluid is a mixture of soap and water.

[c19] 19. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning fluid is a mixture of water, anti-bactericides

and soap.

[c20] 20. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning fluid is a mixture of water, anti-bactericides and soap.

[c21] 21. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.

[c22] 22. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.

[c23] 23. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the duration of the cleaning cycle is automatically time controlled.

[c24] 24. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the duration of the cleaning cycle is automatically time controlled.

[c25] 25. A process employing a posterior part cleansing ap-

paratus specified in Claim 1 [Claim Reference], where the duration of the cleaning cycle is manually time controlled.

[c26] 26. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the duration of the cleaning cycle is manually time controlled.

[c27] 27. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.

[c28] 28. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.

[c29] 29. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.

[c30] 30. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.

[c31] 31. A process employing a posterior part cleansing apparatus specified in Claim 1 [Claim Reference], where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.

[c32] 32. A process employing a posterior part cleansing apparatus specified in Claim 2 [Claim Reference], where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.